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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/620,605	07/17/2003	Qi Xiang	64965-168	9283	
7590 07/05/2006			EXAM	EXAMINER	
McDermott, Will & Emery			CRANE, S	CRANE, SARA W	
600 13th Street, N.W. Washington, DC 20005-3096			ART UNIT	PAPER NUMBER	
			2811	-	
			DATE MAILED: 07/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · ·		Application No.	Applicant(s)			
		10/620,605	XIANG, QI			
Office Action Summary		Examiner	Art Unit			
		Sara W. Crane	2811			
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period fo		/ 10 057 70 EVDIDE - 140NTH	O) OD TUUDTY (OO) DAYO			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 14 Ap	oril 2006.				
2a) 🗌	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
4)⊠	Claim(s) 10-27 is/are pending in the application	n.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🖾	5)⊠ Claim(s) <u>23-27</u> is/are allowed.					
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>10-12,15 and 17-19</u> is/are rejected.					
· ·	Claim(s) <u>13,14, 16, and 20</u> is/are objected to.					
8)[_]	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9) 🗌	The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11)	ine oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
			-			
Attachmen		" 	(PTO 140)			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da				
3) Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		atent Application (PTO-152)			

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DETAILED ACTION

The indicated allowability of claims 10-12, 15, and 17-19 is withdrawn in view of the Lustig et al. reference, which was found in the update search.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10-12, 15, and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lustig et al.

With respect to claim 10, figure 1 of the reference shows a semiconductor substrate 1, 2, 3, 4, comprising SiGe layer 4 on a base layer, with first and second regions at the left and at the right of the figure, and with an isolation region in between. (As shown in the center of figure 2, the region in the center of the figure 3, 4, 5 is an isolation region). Implanting dopant for source and drain, and forming gate oxide and a gate electrode are shown in figures 2-5, or would have been obvious in order to obtain the structural features shown in these figures. Figure 6 shows selective removal of at least a portion of silicon layer 5 (uppermost layer) in only the second region on the right.

With respect to claim 11, both dopant types are noted in the abstract. With respect to claim 12, all of the silicon is removed in the right of the figure, except for a

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small amount under the gate. With respect to claim 15, oxidizing of silicon to form gate oxide would have been obvious to form high-quality oxide. With respect to claims 17-18, thin layers would have been obvious to form small devices. With respect to claim 19, the silicon layer 5 is strained.

Claims 13,14, 16 and 20 are objected to as being dependent on a rejected base claim.

Claims 23-27 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane
Primary Examiner
Art Unit 2811